

Software for Simplified Project Management

PR 5 – Posted by Dr. Tarek Hegazy, University of Waterloo, tarek@uwaterloo.ca

Description: This is a small project with nine activities, as shown in the following table along with two possible estimates for each activity.

Activity	Description	Estimate no. 1 Normal Work		Estimate no. 2 Overtime	
		Dur. (d)	Cost (\$)	Dur. (d)	<u>Cost (\$)</u>
1	Α	7	2,000	6	2,300
2	В	5	2,000	3	3,120
3	С	9	2,000	7	2,850
4	D	19	2,000	18	2,200
5	E	10	2,000	9	2,150
6	F	8	2,000	6	2,500
7	G	5	2,000		
8	H	11	2,000	10	2,550
9	T.	7	2,000	6	2,200

Logical Relationships:

Activity B follows A:

Activities C, D, and E follow activity B;

G depends on the completion of F;

F succeeds C;

Activity H follows E; and

Activity I starts after the completion of activities D, G, and H.

Project Constraints:

- Deadline is 40 days. No Penalty for late completion but early completion bonus is \$500/day.
- Reporting period is 5 days; interest=1%; Markup=5%; and Hold Back=10%.
- No mobilization payment or credit for suppliers is involved;
- Assume no indirect cost.

Requirements:

Enter project data into EasyPlan, print the network, and determine the least costly schedule considering the bonus value given. **Check your solution.**

Print the Cash flow and notice the interest charges. View and print the final bid proposal form.